

Comanche County

Estimated Economic Impact of Agriculture, Food, and Food Processing Sectors

6/22/2017

Using the most recent IMPLAN data available (2015) adjusted for 2017, 12 agriculture, food, and food processing sectors were analyzed to determine their overall contribution to the Comanche County economy.¹

These 12 sectors have a total direct output of approximately **\$153.3 million** and support **418.2 jobs** in Comanche County. Running the model for all 12 sectors simultaneously produces the following results:

Agriculture, Food, and Food Processing Sector Contribution to Overall Comanche County Economy						
Impact Type ²	Employment	% Employment	Total Value Added ³	Total Value Added % of Gross Regional Product ⁴	Output ⁵	Output % of Gross Regional Product
Direct Effect	418.2	27.71%	\$34,860,662	43.81%	\$153,298,807	192.66%
Indirect Effect	117.5	7.79%	\$4,300,243	5.40%	\$11,908,786	14.97%
Induced Effect	31.0	2.05%	\$1,485,802	1.87%	\$3,074,233	3.86%
Total Effect	566.7	37.55%	\$40,646,707	51.08%	\$168,281,826	211.49%

As shown in the above table, agriculture, food, and food processing sectors support **566.7 jobs**, or **37.55%** of the entire workforce in the county. These sectors provide a total economic contribution of approximately **\$168.3 million**, roughly **211.49% of the economy**.

Another metric used to calculate the importance of sectors in an economy is their value added as a percentage of GRP. Total value added by the 12 agriculture, food, and food processing sectors is approximately **\$40.6 million**, or **51.08% of the GRP**. This indicates that personal income, business income, and taxes generated by these sectors account for **51.08% of the total economy**.

The following tables document the overall summary numbers of the model, top industries affected by employment and output, and a listing of all industries that were analyzed.

¹ Article on building a contribution analysis in IMPLAN that avoids double counting:

http://www.implan.com/index.php?option=com_content&view=article&id=660%3A660&catid=253%3AKB33&Itemid=70

² Direct, indirect, and induced effects sum together to estimate the total economic contribution in the state. **Direct effects** capture the contribution from agricultural and food products. **Indirect effects** capture the economic benefit from farms and agricultural businesses purchasing inputs from supporting industries within the state. **Induced effects** capture the benefits created when employees of farms, agricultural businesses, and the supporting industries spend their wages on goods and services within the state.

³ Value added = labor income + indirect business taxes + other property type income.

⁴ GRP = final demand of households + governments expenditures + capital + exports - imports - institutional sales.

⁵ Output = intermediate inputs + value added.

In the top ten agriculture, food, and food processing sectors by employment, the beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming sector is the top employer with **217.1 employees**. This table also shows the amount of jobs that are created by the agriculture industry in Comanche County.

Top Ten Agriculture, Food, and Food Processing Sectors by Employment		
Sector	Total Employment	Total Output
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	217.1	\$49,213,847
Mayonnaise, dressing, and sauce manufacturing	89.0	\$59,647,357
Farm machinery and equipment manufacturing	45.0	\$22,304,883
All other crop farming	32.5	\$4,321,113
Support activities for agriculture and forestry	25.5	\$1,597,124
Grain farming	24.6	\$15,721,135
Wholesale trade	22.2	\$3,060,075
Securities and commodity contracts intermediation and brokerage	13.2	\$935,312
Real estate	9.7	\$957,298
Monetary authorities and depository credit intermediation	8.8	\$1,105,615

The mayonnaise, dressing, and sauce manufacturing sector directly contributes approximately **\$59.6 million** to the Comanche County economy. The table below also shows the amount of revenue that is generated in other industries by having a strong agriculture industry.

Top Ten Agriculture, Food, and Food Processing Sectors by Output		
Sector	Total Employment	Total Output
Mayonnaise, dressing, and sauce manufacturing	89.0	\$59,647,357
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	217.1	\$49,213,847
Farm machinery and equipment manufacturing	45.0	\$22,304,883
Grain farming	24.6	\$15,721,135
All other crop farming	32.5	\$4,321,113
Wholesale trade	22.2	\$3,060,075
Support activities for agriculture and forestry	25.5	\$1,597,124
Animal production, except cattle and poultry and eggs	7.1	\$1,410,225
Monetary authorities and depository credit intermediation	8.8	\$1,105,615
Electric power transmission and distribution	0.9	\$993,372

Below is a summary of all agriculture data with employment levels and output level. These values can tell how many jobs are represented by each agriculture, food, and food processing sector and the output they contributed to the Comanche County economy.

All Agriculture, Food, and Food Processing Sectors		
Sector	Total Employment	Total Output
Oilseed farming	0.1	\$235,303.61
Grain farming	24.6	\$15,721,135.14
Vegetable and melon farming	0.3	\$70,543.95
Cotton farming	0.5	\$142,519.68
All other crop farming	32.5	\$4,321,113.11
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	217.1	\$49,213,844.30
Poultry and egg production	0.03	\$27,588.77
Animal production, except cattle and poultry and eggs	7.1	\$1,410,224.44
Bread and bakery product, except frozen, manufacturing	1.8	\$187,796.09
Frozen cakes and other pastries manufacturing	0.1	\$16,493.86
Mayonnaise, dressing, and sauce manufacturing	89.0	\$59,647,354.13
Farm machinery and equipment manufacturing	45.0	\$22,304,883.96

All 105 counties in Kansas have an IMPLAN model and an agriculture, food, and food processing contribution summary. These values do not factor in the retail environment of food sales. Food retail is important, but in order to provide the most accurate picture of what production agricultural and processing contributes to Comanche County, the retail sector was omitted.